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Class

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Schedule-Class IPC|F16B2/02
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Documents

Abstract/Abridgement

Document is not stored as text

Conventions

Date (320)	Country (330)	Application Number
01-MAY-1984	United Kingdom	8411154

Current Applicants/Licensees

Applicant: London & Midland Drop Forging Co Ltd.
Address (71)

Contact (74)

No contact on record or public access is restricted

Address for Service

No address for service on record or public access is restricted

Inventors (72)

Lowe, J.G.

Applicant/Licensee History

No applicant/licensee on record or public access is restricted

Actions

Action	Completed	Due	Journal	Published
No actions on record or public access is restricted				

Related Patents

No associations on record or public access is restricted

Objections

Objection Type	Lodged Date
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Financial Interest

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Renewal Interest

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Patents form No.5

NEW ZEALAND

PATENTS ACT 1953

COMPLETE SPECIFICATION

"SCAFFOLDING CLAMP"

**X, WE, LONDON & MIDLAND DROP FORGING COMPANY LIMITED,
a British company of St Lukes Works, Sutherland Road,
Cradley Heath, Warley B64 6EJ, West Midlands, ENGLAND,**

**hereby declare the invention, for which X/we pray that a
patent may be granted to ~~me/us~~, and the method by which it
is to be performed, to be particularly described in and by
the following statement:-**

SCAFFOLDING CLAMP

This invention relates to a clamp which is intended for use in connecting an elongate scaffolding member or other elongate member such as a pipe to a flanged structural member such as for example an I-section beam, the clamp being referred to for convenience as a scaffolding clamp. The object of the present invention is to provide such a scaffolding clamp which will be economical to manufacture and yet will be strong and long-lasting in use.

In accordance with the invention there is provided a scaffolding clamp which comprises a one-piece body of generally channel-shaped configuration comprising a pair of spaced flanges which are integrally interconnected by a web portion and which each project transversely from said web portion, one of said flanges being formed on its exterior surface with a seating for an elongate member and being pivotally connected to a cover which is also formed with a seating for said elongate member, releasable screw-threaded fastening means being provided for securing said cover to said one flange for clamping said elongate member in position between said two seatings, the other flange of said body being provided with a clamping bolt for clamping the body in use to the flange of a flanged structural member, said clamping bolt being disposed so that its axis intersects said one flange of the body.

Conveniently, said channel-shaped body is formed as a metal forging. Said cover may also be formed as a forging.

The invention will now be more particularly described with reference to the accompanying drawing which is a perspective view of one example of a scaffolding clamp constructed in accordance with the invention.



Referring now to the drawing there is shown therein one example of a scaffolding clamp constructed in accordance with the invention, the clamp having a body generally indicated by reference numeral 10 which is 5 formed as a forging so as to provide a pair of flanges 11 and 12 which are integrally interconnected by a web portion 13. The flanges 11 and 12 are of generally similar width but the flange 11 is longer than the flange 12 and is shaped to provide on its exterior 10 surface a seating 14 for an elongate member such as a scaffolding member which may be in the form of a metal tube.

The flange 11 is also pivotally connected to one end of a cover 15, the flange being conveniently provided with 15 an outwardly projecting integrally formed lug 16 which extends between a pair of spaced parallel ears 17 and 18 formed on said cover 15, a pin 19 extending through aligned apertures in said lug 16 and ears 17 and 18 to form a pivot on which the cover 15 can turn relative to 20 the flange 11. The interior of said cover 15 is also formed with a seating 20 and screw threaded fastening means comprising a T-headed bolt 21 and nut 22 are provided for releasably securing said cover 15 relative to the flange 11 in a position in which said two 25 seatings 14 and 20 will engage and grip the opposite sides of the aforesaid elongate scaffolding member. The head of said T-headed bolt 21 is located in a pocket integrally formed in the underside of said flange 11 and the stem of said bolt 21 extends through a slot 23 30 formed in the non-pivoted end of the cover 15, a washer 24 being interposed between said cover and the nut 22 so that tightening of the latter can be used to secure the elongate scaffolding member in its clamped position.

The other flange 12 of the body 10 is formed with a screw threaded aperture through which in use projects a bolt 25 which is arranged so that its head lies outside the flange 12, the inner end of the bolt 25 then being 5 adapted to engage one side of the flange of a flanged structural member, the other side of which will then be engaged by the inner surface of the flange 11 of the body 10. Said flange of the flanged structural member can thus be securely clamped by said bolt 25 between 10 the inner end of the bolt and the inner surface of the flange 11. Thus in use the scaffolding clamp as shown in the drawing can be used to secure an elongate scaffolding member or pipe or other elongate member to said flange of a flanged structural member, the length 15 of the latter when in its clamped position then extending in a direction which is generally perpendicular to the length of the elongate scaffolding member or other elongate member.

It will be appreciated that a clamp as above described 20 has a body which is formed as a one-piece construction so that there is no weld or other joint between for example the flange 11 and the remainder of the body. This makes for a strong construction which will have a relatively long life in use. The clamp is however 25 relatively economical to manufacture and if desired the cover 15 can be made as a forging like the body 10.

WHAT WE CLAIM IS:

1. A scaffolding clamp which comprises a one-piece body of generally channel-shaped configuration comprising a pair of spaced flanges which are integrally interconnected by a web portion and which each project transversely from said web portion, one of said flanges being formed on its exterior surface with a seating for an elongate member and being pivotally connected to a cover which is also formed with a seating for said elongate member, releasable screw-threaded fastening means being provided for securing said cover to said one flange for clamping said elongate member in position between said two seatings, the other flange of said body being provided with a clamping bolt for clamping the body in use to the flange of a flanged structural member, said clamping bolt being disposed so that its axis intersects said one flange of the body.
2. A scaffolding clamp as claimed in Claim 1 wherein said spaced flanges of the body are of generally similar width but of different length, the flange which is formed on its exterior with a seating for an elongate member being longer than the other flange.



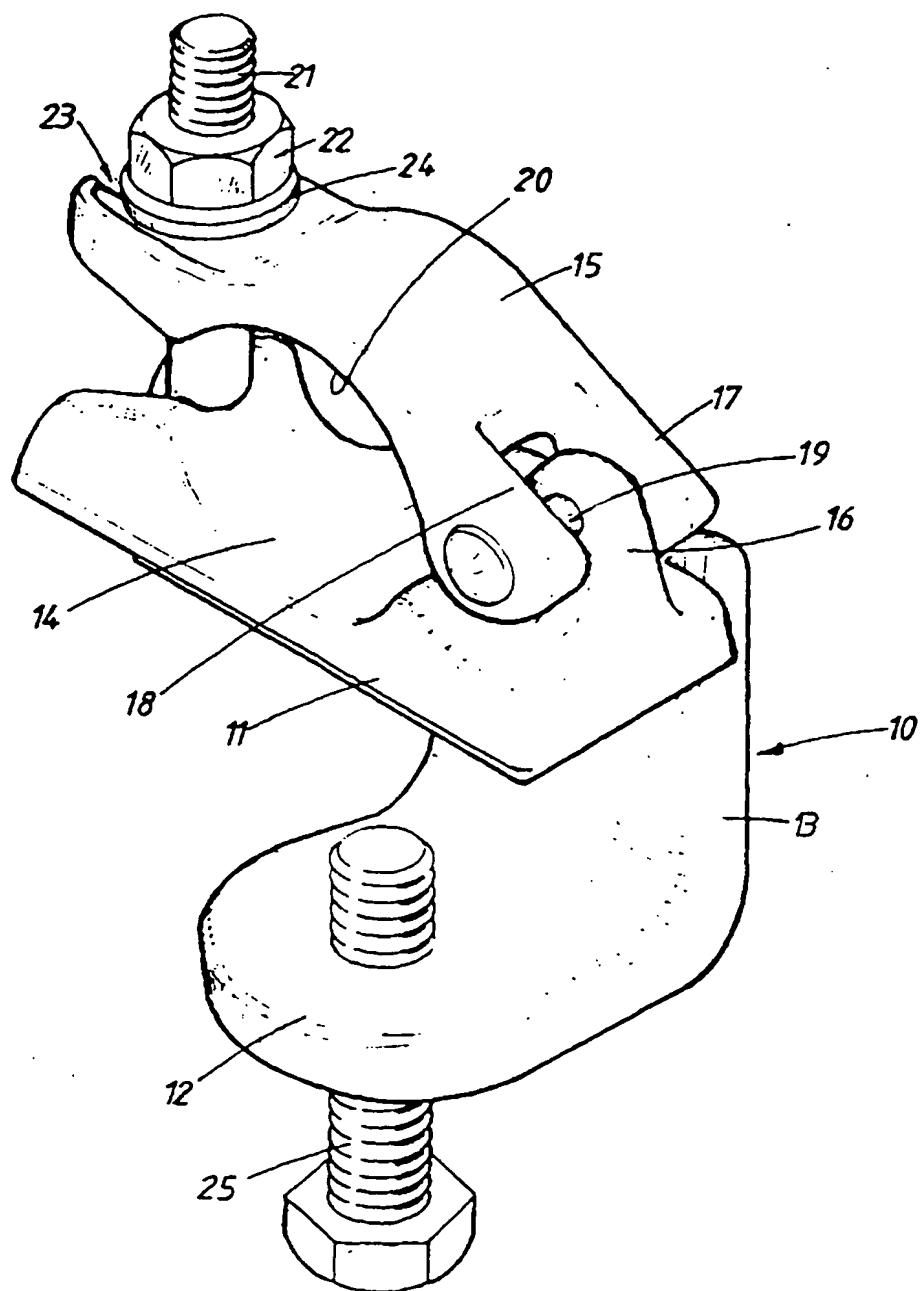
3. A scaffolding clamp as claimed in either of the preceding claims wherein that flange which is formed on its exterior with a seating for an elongate member is provided with an integrally formed outwardly projecting lug which extends between a pair of spaced parallel ears formed on said cover, a pin extending through aligned apertures formed in said lug and said ears forming a pivot for said cover.

4. A scaffolding clamp substantially as hereinbefore described with reference to and as shown in the accompanying drawing.

LONDON & MIDLAND DROP FORGING
COMPANY LIMITED


By their Attorneys
BALDWIN, SON & CAREY



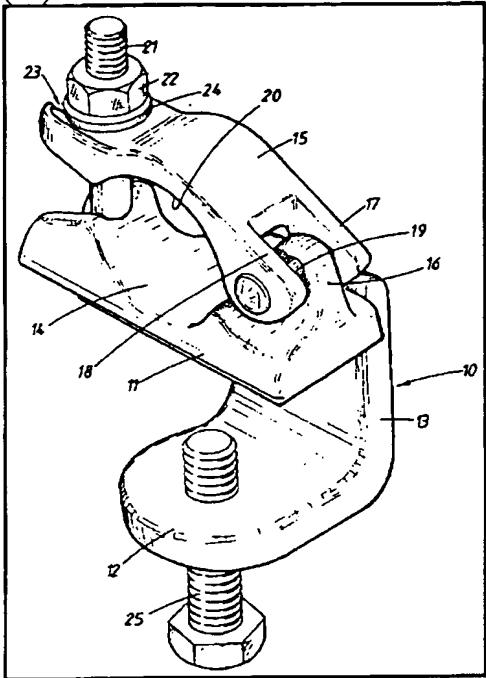


LONDON & MIDLAND DROP FORGING COMPANY

LIMITED

W. G. Baldwin
by their attorneys
BALDWIN, SON & CAREY

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(71) London & Midland Drop Forging Co Ltd.
(72) Lowe, J.G.
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(74) BSC.



(57) A scaffolding clamp has a body 10 of channel shape with a pair of spaced flanges 11,12. One flange 11 has formed on its exterior a seating 14 for an elongate scaffolding member and is also pivotally connected on its exterior to a cover 15 similarly provided with a seating 20 for the elongate scaffolding member. A "T" headed bolt 21 and nut 22 can releasably connect the cover 15 to the flange 11 in order to secure the elongate scaffolding member between the seatings 14,20. The other flange 12 is provided with a bolt 25 for securing the body to a flange of a flanged structural member.

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